

Recombinant Human FOLH1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. FOLH1-2281H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FOLH1 MS Standard C13 and N15-labeled recombinant protein (NP_004467) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a type II transmembrane glycoprotein belonging to the M28 peptidase family. The protein acts as a glutamate carboxypeptidase on different alternative substrates, including the nutrient folate and the neuropeptide N-acetyl-L-aspartyl-L-glutamate and is expressed in a number of tissues such as prostate, central and peripheral nervous system and kidney. A mutation in this gene may be associated with impaired intestinal absorption of dietary folates, resulting in low blood folate levels and consequent hyperhomocysteinemia. Expression of this protein in the brain may be involved in a number of pathological conditions associated with glutamate excitotoxicity. In the prostate the protein is up-regulated in cancerous cells and is used as an effective diagnostic and prognostic indicator of prostate cancer. This gene likely arose from a duplication event of a nearby chromosomal region. Alternative splicing gives rise to multiple transcript variants encoding several different isoforms.
Molecular Mass	84.2 kDa
AA Sequence	MWNLLHETDSAVATARRRPRLCAGALVLAGGFFLLGFLFGWFIKSSNEATNITPKHN

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MKAFLDELKAENIKKFLYNFTQIPHLAGTEQNFQLAKQIQSQWKEFGLDSVELAHYD
 VLLSYPNKTHPNYISIINEDGNEIFNTSLFEP PPPGYENVSDIVPPFSAFSPQGMPEGD
 LVYVNYARTEDFFKLERDMKINCSGKIVIRYGVFRGNKVNAQLAGAKGVILYSDP
 ADYFAPGVKSYPDGWNLPGGGVQQRGNILNLNGAGDPLTPGYPANAYRRGIAEA
 VGLPSIPVHPIGYYDAQKLEKMGG SAPPDSSWRGSLKVPYNVGPFGFTGNFSTQKV
 KMHIHSTNEVTRIYNVIGTLRGAVEPDYRVLGGHRDSWVFGGIDPQSGAAVVHEIVR
 SFGTLKKEGWRRPRRTILFASWDAEEFGLLGSTEWAEENSRLQERGVA YINADSSIE
 GNYTLRVDCTPLMYSLVHNLTKELKSPDEGFEGKSLYESWTKKSPSPEFSGMPRIS
 KLGSGNDFEVFFQRLGIASGRARYTKNWETNKFSGYPLYHSVYETYELVEKFYDPM
 FKYHLTVAQVRGGMVFE LANSIVLPFDCRDYAVVLRKYADKIYSISMKHPQEMKTYS
 VSFDSLFSAVKNFTEIASKFSERLQDFDKSNPIVLRMMNDQLMFLERAFIDPLGLPDR
 PFYRHVIYAPSSH NKYAGESFPGIYDALFDIESKVDPSKAWGEVKRQIYVAAFTVQAA
 AETLSEVATRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name FOLH1 folate hydrolase 1 [Homo sapiens (human)]

Official Symbol FOLH1

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Synonyms

FOLH1; folate hydrolase (prostate-specific membrane antigen) 1; FOLH; glutamate carboxypeptidase 2; GCP2; GCP2; glutamate carboxylase II; glutamate carboxypeptidase II; NAALAD1; NAALADase; PSM; PSMA; NAALADase I; membrane glutamate carboxypeptidase; cell growth-inhibiting gene 27 protein; folypoly-gamma-glutamate carboxypeptidase; prostate specific membrane antigen variant F; pteroylpoly-gamma-glutamate carboxypeptidase; N-acetylated alpha-linked acidic dipeptidase 1; N-acetylated-alpha-linked acidic dipeptidase I; FGCP; mGCP;

Gene ID

2346

mRNA Refseq

NM_004476

Protein Refseq

NP_004467

MIM

600934

UniProt ID

Q04609

SDS-PAGE
